

Comparisons of Job Characteristics

Focus Occupation: [Helpers--Installation, Maintenance, and Repair Workers \(49-9098\)](#)
Associated Occupation: [Heating, Air Conditioning, and Refrigeration Mechanics and Installers \(49-9021\)](#)

[Compare Knowledge](#)
[Compare Skills](#)
[Compare Abilities](#)
[Compare Detailed Work Activities](#)
[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: [Helpers--Installation, Maintenance, and Repair Workers \(49-9098\)](#)

Associated Occupation: [Heating, Air Conditioning, and Refrigeration Mechanics and Installers \(49-9021\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	20.1	15.0	<<	Extensive education and/or training may be required
Building and Construction	4.0	12.5	6.9	<<	Extensive education and/or training may be required
Physics	4.3	11.4	5.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.1	9.1	<	Expanded education and/or training may be required
Design	5.2	10.3	8.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: [Helpers--Installation, Maintenance, and Repair Workers \(49-9098\)](#)

Associated Occupation: [Heating, Air Conditioning, and Refrigeration Mechanics and Installers \(49-9021\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Repairing	3.4	13.5	9.4	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	13.3	9.3	<<	Extensive development of skills in this area may be required
Installation	1.7	12.6	5.8	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	12.3	10.7	<	A higher skill level may be required
Operation Monitoring	6.6	11.4	10.8	0	Current skill level may be sufficient

Quality Control Analysis	5.9	11.2	10.0	<	A higher skill level may be required
Operation and Control	5.4	10.9	10.5	0	Current skill level may be sufficient
Equipment Selection	3.3	9.4	8.7	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 87

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visualization	7.5	12.4	10.0	<	Some improvement in abilities may be required
Extent Flexibility	4.8	11.8	13.4	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	10.3	10.2	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	10.0	10.1	0	Current ability level may be sufficient
Static Strength	5.0	10.0	11.6	>	Current ability level is likely sufficient
Gross Body Coordination	3.9	7.4	8.4	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	7.1	8.4	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Apply cleaning solvents	41
Assemble and install pipe sections, fittings, or plumbing fixtures	71
Assemble, dismantle, or reassemble equipment or machinery	70
Fabricate, assemble, or disassemble manufactured products by hand	11
Inspect machinery or equipment to determine adjustments or repairs needed	42
Install electronic equipment, components, or systems	62
Install equipment or attachments on machinery or related structures	48
Lubricate machinery, equipment, or parts	59
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read work order, instructions, formulas, or processing charts	9

Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Replace electronic components	63
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use basic plumbing techniques	72
Use hand or power tools	2
Use knowledge of metric system	39

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

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Tools and Technologies	Exclusivity
Aerial lifts	13
Cleaning equipment	11
Compressors	9
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Dispensing tools	6
Earth moving machinery	11
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Industrial trucks	10
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Power tools	2
Pumps	9
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.